Highway Number (ON) 5D: 470A

Colorado Department of Transportation Structure Inspection and Inventory Report (English Units)

Mile Post (ON)11: 13.900 mi

Bridge Key: F-16-M	Н	Inspection Date: 3/6	6/2012	Sufficiency Rating: 97.6	Not Eligible
Rgn/Sectn 2E/2M:	68	Hist Signif 37:	5	UW Inspection Date 93B	
Trans Region 2T	02	Posting status 41:	Α	SI Date 93C:	
County Code 3:	059	Service on/un 42A/B:	6 1	Bridge Cost 94:	\$ 0
JEFFERSON		Main Mat/Desgn 43A/B:	6 5	Roadway Cost 95:	\$ 0
Place Code 4:	00000	Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ 0
non-city		Main Spans Unit 45:	2	Year of Cost Estimate 97:	
Rte.(On/Under)5A:	1	Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Signing Prefix 5B:	3	Horiz Clr 47:	38.0 ft	Border Bridge Number 99	
Level of Service 5C:	1	Max Span 48:	141.0 ft	Defense Highway 100:	0
Directional Suffix 5E:	0	Str Length 49:	283.3 ft	Parallel Structure 101:	L
Feature Intersected 6:		Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Direction of Traffic 102:	1
SH 121-WADSWORTH	H BLVD	Width Curb to Curb 51	38.0 ft	Temporary Structure 103	
Facility Carried 7:		Width Out to Out 52:	41.5 ft	Highway System 104:	1
SH 470 ML WBND		Deck Area:	11,756.9 sq. ft	Fed Lands Hiway 105:	0
Alias Str No.8A:		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106	0000
		Min Undrclr Ref 54A:	Н	Deck Type 107:	1
Prll Str No. 8P		Min Undrclr 54B:	16.3 ft	Wearing Surface 108A	6
F-16-MG		Min Lat Clrnce Ref R 55A:	H	Membrane 108B:	2
Location 9:	328.051174090	Min Lat Undrclr R 55B:	20.0 ft	Deck Protection 108C:	1
3.2 MI W - JCT US 85 -		Min Lat Undrolr L 56:	5.00000159	Truck ADT 109:	5 %
Max Clr 10:	99.99	Deck 58:	7	Trk Net 110:	1
BaseHiway Net12:	1	Super 59:	8	Pier Protection 111:	#
IrsinvRout 13A	000000470A	Sub 60:	7	NBIS Length 112:	Υ
IrssubRout No13B:	00	Channel/Protection 61:	N	Scour Critical 113:	N
Latitude 16:	39d 33' 14"	Culvert 62:	N	Scour Watch 113M:	
Longitude 17:	105d 05' 08"	Oprtng Rtg Method 63:	1 LF Load Facto	Future ADT 114:	42,328
Range18A:	69 W	Operating Rating 64:	66.0	Year of Future ADT 115	2027
Township18B:	69	Inv Rtng Method 65:	1	CDOT Str Type 120A:	CBGC
Section18C:	2	Inventory Rating 66:	39.0	CDOT Constr Type 120B	10
Detour Length 19:	0.6 mi	Asph/Fill Thick 66T:	004 "in"	Inspection Indic 122A:	
Toll Facility 20:	3	Str. Evaluation 67:	7	Inspection Trip 122AA	
Custodian 21:	1	Deck Geometry 68:	6	Scheduling Status 122B	
Owner 22:	1	UndrcIr Vert/Hor 69:	5	Maintenance Patrol 123	17
Functional Class 26:	12	Posting 70:	5	Expansion Dev/Type124	0
Year Built 27:	1987	Waterway Adequacy 7	N	Brdg Rail Type/Mod 125A/B	R 0
Lanes on 28A:	2	Approach Alignment 72:	8	Posting Trucks 129A/B/C	0 0
Lanes Under 28B:	8	Type of Work 75A:		Str Rating Date 130:	6/12/1998
ADT 29:	28,600	Work Done By 75B:		Special Equip 133:	-1
Year of ADT 30:	2007	Length of Improvment 76:	0.0 ft	Vert Clr N/E 134A/B/C:	N 16.58 16.17
Design Load 31:	6	Insp Team Indicator 90B:	GREEN TEAM	Vert Clr S/W 135A/B/C	S 18.08 16.33
Apr Rdwy Width 32:	38.0 ft	Inspector Name 90C:	BUTKOVICHJ	Vertical Clr Date:	3/6/2012
Median 33:	1	Frequency 91:	24 months	Weight Limit Color: 139	0
Skew 34:	41.00 °	FC Frequency 92A:	-1	Str Billing Type:	U
Structure Flared 35:	0	UW Frequency 92B:	-1	Userkey 1 - System:	ONSYS
Sfty Rail 36a/b/c/d:	1 1 1 1	SI Frequency 92C:	-1	Userkey 7-Update Indic	
Rail ht36h:	36 "in"	FC Inspection Date 93A:			,

Inspector Name: BUTKOVICHJ

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Element Inspection Report

Elm/En	Description	Units	Total Qty	% in 1	CS 1	% in 2	CS 2	% in 3	CS 3	% in 4	CS 4	% in 5	CS 5
26/4	Conc Deck/Coatd Bars	(SF)	11,757	100 %	11,757	0 %	0	0 %	0	0 %	0	0 %	0
104/4	P/S Conc Box Girder	(LF)	849	100 %	849	0 %	0	0 %	0	0 %	0	0 %	0
210/4	R/Conc Pier Wall	(LF)	28	100 %	28	0 %	0	0 %	0	0 %	0	0 %	0
215/4	R/Conc Abutment	(LF)	110	100 %	110	0 %	0	0 %	0	0 %	0	0 %	0
302/4	Compressn Joint Seal	(LF)	110	100 %	110	0 %	0	0 %	0	0 %	0	0 %	0
321/4	R/Conc Approach Slab	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
325/4	Slope Prot/Berms	(EA)	2	100 %	1	0 %	1	0 %	0	0 %	0	0 %	0
326/4	Bridge Wingwalls	(EA)	4	0 %	0	100 %	4	0 %	0	0 %	0	0 %	0
331/4	Conc Bridge Railing	(LF)	566	100 %	566	0 %	0	0 %	0	0 %	0	0 %	0
340/4	Superstr Cnc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
341/4	Substr Conc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
26/4	Conc Deck/Coatd Bars	4 inches of asphalt. A few longitudinal and random cracks that have been sealed.
104/4	P/S Conc Box Girder	Exterior looks good with only a short longitudinal crack with efflor., at the centerline of the bottom flange, near Abutment 1. The Left edge of Span 1 is scuffed from a high load, above the Right Southbound Wadsworth shoulder. Vehicle scrape in Span 2 above left turn lane, see 2012 PHOTO.
210/4	R/Conc Pier Wall	Looks good.
215/4	R/Conc Abutment	Look good.
302/4	Compressn Joint Seal	Located between approach slabs and roadway pavement. Asphalt cover has cracking at the both ends, and has been sealed in the past. Asphalt over the both joints has a 0.5 to 1.0 inch wide crack currently.
321/4	R/Conc Approach Slab	Covered with asphalt. Look good.
325/4	Slope Prot/Berms	The slope along wingwalls is settled; 6 inches at the Right Forward corner, 7 inches at the Left Forward corner, and 7 inches at the Left Rear corner. Settled 1 inch minimum at the face of both abutments. Light to moderate transverse and diagonal cracks in both, with slight buckling at the toe of #1, and buckled up to 3 inches high near the base of the slope between the 2 bridges.
326/4	Bridge Wingwalls	Light random cracks with moderate to heavy efflor. at #1 Left, #3 Left, and #3 Right Subwing closure walls are spalled as noted: #1 left spalled 17 in wide x 28 in tall x 8 in deep; #1 right spalled 16 in wide x 20 in tall x 8 in deep; #3 left spalled 16 in wide x 8 in tall x 3 in deep; #3 right spalled 15 in wide x 48 in tall x 8 in deep with a 7 ft deep void behind wing and beneath approach rdwy, see 2012 PHOTO. All spalled areas have rebar corroded with up to 50% loss, but #3 right has some rebar failed with up to 100% loss, see 2012 PHOTO.
331/4	Conc Bridge Railing	Jersey barriers have typical light vertical cracks, and many scuffs from tires and scrapes from vehicles.
340/4	Superstr Cnc Coating	On girders and bridge rail. Scraped by a high load in Span 1, on the Left side. A few scrapes on the rail.
341/4	Substr Conc Coating	On wings, abutments, pier wall, and slope paving. Some peeling on the slope paving.

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Maintenance Activity Summary

MMS Activity	Description F	Recommended	Status	Target Year	Est Cost
353.08 Br [Ok Rpr	1/3/2002	-1	2014	1000
Seal the aspha	alt along the compressio	n seals between	approa	ach slabs and a	approach roadway.
	o SI & S roid behind sub wing clos	3/6/2012 sure wall at right	 forward	2014 d corner.	2000
358.99 Sub	ostr	1/3/2002	-1	2014	20000
I	walls below approach s				

Bridge Notes

1989.

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Inspection Notes

Time: 11:05	Temperature: 66 Degrees	Weather: Clear	Team Leader: JWB	
_				
Scope:				
✓ NBI: ✓ Ele	ment: Underwater:	Fracture Critical	I: Other: Type: Regular NBI	
_ NDI LIC	ment onderwater.		Type: Integular 1121	
Inspector:	BUTKOVICHJ	Inspection Team	m:	
-		-		
Inspection Date:	03/06/2012			
•		Inonactor		
		Inspector		
		In a section		
		Inspector		